

3-3-77 Footage location change to 309 FNL & 750' FEL

5-25-77 SI Lns Storage

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. SL - 045053 a	
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER Gas Storage		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -	
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement	
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		8. FARM OR LEASE NAME Unit Well	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.) At surface 150' FNL 850' FEL NE NE		9. WELL NO. 34-S	
10. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 150'		11. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage	
11. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 3800' Unit #4		12. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NE 27-3N-24E	
12. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6612'		13. COUNTY OR PARISH Daggett	
13. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 41 miles south of Rock Springs, Wyoming		14. STATE Utah	
14. NO. OF ACRES IN LEASE 640		15. NO. OF ACRES ASSIGNED TO THIS WELL -	
15. PROPOSED DEPTH 6052'		16. ROTARY OR CABLE TOOLS Rotary	
16. APPROX. DATE WORK WILL START* After Unit #33-S			

23. PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4"	9-5/8" new	36#, K-55	300'	180 sx, 3% CaCl
8-3/4"	7" new	23#, K-55	6052'	To be determined

We would like to drill the subject well to an estimated depth of 6052', anticipated formation tops are as follows: Mancos at the surface, Frontier at 5507', Mowry at 5668', Dakota at 5852', and Morrison at 5987'.

Mud will be adequate to contain formation fluids and in sufficient quantities to efficiently drill the well; blowout preventers will be checked daily and pressure tested after each string of casing is set; no cores, no DST's; no mud logging unit: 20 days drilling time; no abnormal temperatures, pressures, or H₂S anticipated; probably run Laterlog & CDL logs.

APPROVED BY THE DIVISION OF
OIL, GAS, AND MINING

DATE: 2-18-77

BY: C. B. Light

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured and true vertical depths. Give blowout preventer program, if any.

24. SIGNED R. E. Meyer TITLE Manager, Drilling and Petroleum Engineering DATE Feb. 12, 1977

(This space for Federal or State office use)

PERMIT NO. 43-009-30025 APPROVAL DATE _____APPROVED BY Case 164-1 TITLE _____ DATE _____

CONDITIONS OF APPROVAL, IF ANY:

STATE OF UTAH
DIVISION OF OIL, GAS, AND MINING

Gas Storage

** FILE NOTATIONS **

Date:

Feb 16-

Operator:

Mountain Fuel Services

Well No.

Clay Basin Unit 34-5

Location:

Sec.

24

T. *3N*

R. *24E*

County:

Daguerre

File Prepared

☒

Entered on N.I.D.

☒

Card Indexed

☒

Completion Sheet

☒

Checked By:

Administrative Assistant:

[Signature]

Remarks:

Petroleum Engineer:

P

Remarks:

Director:

[Signature]

Remarks:

Include Within Approval Letter:

Bond Required

☐

Survey Plat Required

☐

Order No.

164-1

☒

Surface Casing Change

☐

to

Rule C-3(c), Topographical exception/company owns or controls acreage within a 660' radius of proposed site

O.K. Rule C-3

☐

O.K. to

Clay Basin Unit

Unit

☒

Other

Approved

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPPLICATE*
(Other instructions on reverse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. SL - 045053 a
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface 309' FNL, 750' FEL NE NE		8. FARM OR LEASE NAME Unit Well
14. PERMIT NO. API No.: 43-009-30025	15. ELEVATIONS (Show whether DF, RT, GR, etc.) GR 6593'	9. WELL NO. 34-S
		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NE 27-3N-24E
		12. COUNTY OR PARISH Daggett
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Move location</u>	<input checked="" type="checkbox"/>
(Other) <input type="checkbox"/>		(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

Location was moved per request of BLM, new location plats are attached.

RECEIVED
MAR 10 1977

18. I hereby certify that the foregoing is true and correct
SIGNED B. L. Myers TITLE Manager, Drilling and Petroleum Engineering DATE March 8, 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

✓

INTEROFFICE COMMUNICATION

FROM T. M. Colson

Rock Springs, Wyoming
CITY STATE

TO R. G. Myers

DATE May 3, 1977

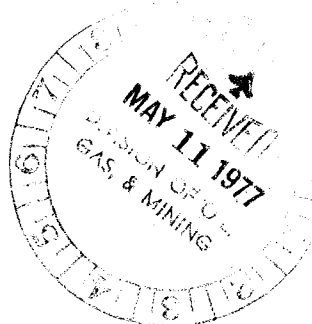
SUBJECT Tentative Plan to Drill
Unit Well No. 34-S
Clay Basin Field

Attached for your information and files is a tentative plan to drill the above-captioned well. This plan was written in accordance with the Geologic Prognosis dated February 11, 1977.

TMC/gm

Attachment

cc: R. D. Cash
E. R. Keller (3)
G. A. Peppinger (3)
A. J. Marushack
A. K. Zuehlsdorff
D. E. Dallas
A. J. Maser (3)
J. E. Adney
E. J. Widic
B. M. Steigleder
E. A. Farmer
D. L. Reese
U.S.G.S.
State
Paul Zubatch
P. E. Files (4)



From: Pat Brotherton

Rock Springs, Wyoming

To: T. M. Colson

May 3, 1977

Tentative Plan to Drill
Unit Well No. 34-S
Clay Basin Field

This well will be drilled to total depth by _____ Drilling Company. One work order has been originated for the drilling and completion of this well, namely 20044, Drill Unit Well No. 34-S, Clay Basin Field, located in the NE NE Sec. 27, T. 3 N., R. 24 E., Daggett County, Utah. An 8-3/4-inch hole will be drilled to a total depth of 6052 feet and 7-inch O.D. casing run. It is planned to complete the well as a gas storage well in the Dakota formation. Surface elevation is at 6593 feet.

1. Drill 12-1/4-inch hole to approximately 330 feet KBM.
2. Run and cement approximately 300 feet of 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing. The casing will be cemented by Halliburton with 165 sacks of regular Type "G" cement with 3 percent calcium chloride, which represents theoretical requirements plus 100 percent excess cement for 9-5/8-inch O.D. casing in 12-1/4-inch hole with cement returned to surface. Plan on leaving a 10 foot cement plug in the bottom of the casing after displacement is completed. Floating equipment will consist of a Baker guide shoe. The top and bottom of all casing collars will be spot welded in the field and the guide shoe will be spot welded to the shoe joint in the Rock Springs Machine Shop. The bottom of the surface casing should be landed in such a manner that the top of the 10-inch 3000 psi casing flange will be at ground level. A cellar three feet deep will be required. Prior to cementing, circulate 50 barrels of mud. Capacity of the 9-5/8-inch O.D. casing is 24 barrels.
3. After a WOC time of 6 hours, remove the landing joint and wash off casing collar. Install a NSCo. Type "B" 10-inch 3000 psi regular duty casing flange tapped for 9-5/8-inch O.D. casing. Install a 2-inch extra heavy nipple, 6-inches long, and

a Demco (2000 psi WOG, 4000 psi test) ball valve on one side outlet of the casing flange and a 2-inch extra heavy bull plug in the opposite side. Install a 10-inch 3000 psi double gate hydraulically operated blowout preventer with blind rams in the bottom and 4-1/2-inch rams in the top and finish nipping up. After a WOC time of 12 hours, pressure test surface casing, all preventer rams, and Kelly-cock to 1000 psi for 15 minutes using rig pump and drilling mud. The burst pressure rating for 9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing is 3520 psi.

4. Drill 8-3/4-inch hole to the total depth of 6052 feet or to such depth as the Geological Department may recommend. The mud will consist of 2 percent potassium chloride water to 4500 feet. Mud up with the potassium Dexdrid Drispac system at this point to allow a 10 cc. water loss at 5750 feet. The 10 cc. water loss will be maintained to total depth at 6052 feet. If lost circulation is encountered only acid soluble lost circulation material will be used. A mud cleaner will be used from surface to total depth to remove undesirable solids from the mud system and to keep the mud weight to a minimum. A Company Geologist will be on location to check cutting samples; 10 foot samples from 5300 feet to total depth. Anticipated tops are as follows:

	Approximate Depth (Feet KBM)
Mancos	Surface
Frontier	5,507
Mowry	5,668
Dakota	5,852
Morrison	5,987
Total Depth	6,052

Objective Reservoir: Dakota Formation

Other Possible

Producing Zones: Frontier Formation

5. Run a laterolog 7 with a split 4-decade logarithmic scale from surface casing to total depth. Run a compensated density/gamma ray/caliper from total depth at 6052 feet to 4052 feet. The 2000 feet logged represents the minimum footage for the log.
6. Assuming gas storage zones of good quality are present as indicated by log analysis, go into hole with 8-3/4-inch bit and drill pipe to total depth to condition mud prior to running production casing. Pull bit laying down drill pipe and drill collars.
7. Run 7-inch O.D. casing as outlined in Item No. I, General Information, through the deepest producing zone as indicated by log analysis. A Baker 7-inch O.D., 8 round thread, Type G circulating differential fillup collar and guide shoe will be run as floating equipment. Rig up Halliburton and cement casing with 50-50 Pozmix "A" cement. Bring cement top behind the 7-inch O.D. casing 1000 feet above the uppermost producing zone as indicated by log analysis. Circulate 300 barrels of drilling mud prior to beginning cementing operations. Capacity of the 7-inch O.D. casing is approximately 238 barrels. Cement requirements will be based on actual hole size as determined by the caliper portion of the formation density log. Rotate casing while circulating, mixing, and displacing cement. Displace cement with water. Bump plug with 2500 psi and hold for 15 minutes to pressure test casing. Minimum burst pressure of the 7-inch O.D., 23-pound, K-55 casing is 4360 psi.
8. Immediately after cementing operations are completed, land the 7-inch O.D. casing with full weight of casing on slips in the 10-inch 3000 psi casing flange and record indicator weight. Install NSCo. Type DP-7 10-inch 3000 psi by 6-inch

3000 psi tubing spool. Pressure test primary and secondary seals to 2500 psi for 5 minutes. Minimum collapse pressure for 7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing is 3280 psi. Install a steel plate on the 6-inch 3000 psi tubing spool flange.

9. Release drilling rig and move off location.
10. Move in and rig up a completion rig.
11. Install a 6-inch 5000 psi hydraulically operated double gate preventer with blind rams on bottom and 2-3/8-inch tubing rams on top.
12. After a WOC time of at least 50 hours, rig up Dresser Atlas and run bond log and perforating formation control log from plugged back depth to top of cement behind the 7-inch O.D. casing.
13. After a WOC time of at least 56 hours, pick up and run a 6-1/4-inch bit on 2-3/8-inch O.D., 4.7-pound, V-55, 8 round thread, EUE tubing to check plugged back depth. Rig up and displace drilling mud out of hole with drip oil. Pull and lay down 2-3/8-inch O.D. tubing.
14. Rig up Dresser Atlas perforating truck and perforate the Dakota storage sand with 2 HPF jumbo jet shots. The interval to be perforated will be chosen after the open hole logging has been reviewed and evaluated.
15. Rig up Dresser Atlas and run a Baker Model FB-1 packer (size 87-40) as follows:
 - Baker Model FB-1 packer (4.0-inch I.D. through packer)
 - 6 foot Baker millout extension (4.0-inch I.D.).
 - 10 foot Baker seal bore protector (4.0-inch I.D.) changeover.
 - 6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.
 - Baker Model "F" non-ported seating nipple (size 2.81).

6 foot 3-1/2-inch O.D., 9.2-pound, J-55, 8 round EUE pup joint.

Baker Model "R" non-ported no-go seating nipple (size 2.75).

Set packer so that the bottom of the assembly is 30 feet above the perforations.

Perforations will be chosen after the open-hole logging is completed.

16. Install 4-1/2-inch rams in preventer. Pick up a Baker locator seal assembly and a Baker Model "L" sliding sleeve and run tubing as follows:

1 NSCo. DP4-H-1 tubing hanger tapped 4-1/2-inch O.D., 8 round thread, LT&C, top and bottom.

4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C pup joints, as required to space out.

Approximately 187 joints 4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing.

Baker Model "L" 4-1/2-inch O.D. sliding sleeve (size 3.812), in open position.

1 6 foot 4-1/2-inch O.D., 11.6-pound, J-55 pup joint.

Baker Model "G" locator seal assembly with 10 feet of seal extensions (I.D. 3.0-inches).

Land tubing in packer with 10,000 pounds compression. Space out and land in wellhead.

17. Install upper portion of wellhead.

18. Swab fluid out of wellbore. Run a short production test.

GENERAL INFORMATION

I. The following tubular goods have been assigned to the well.

<u>Description</u>	<u>Approximate Gross Measurement (feet)</u>	<u>Availability</u>
	<u>Surface Casing</u>	
9-5/8-inch O.D., 36-pound, K-55, 8 round thread, LT&C casing	330	Warehouse Stock
	<u>Production Casing</u>	
7-inch O.D., 23-pound, K-55, 8 round thread, LT&C casing (Bottom 400 feet will be rough coated)	6,100	Warehouse Stock
	<u>Production Tubing</u>	
4-1/2-inch O.D., 11.6-pound, J-55, 8 round thread, LT&C tubing	6,300	Warehouse Stock

II. All ram type preventers will have hand wheels installed and operative at the time the preventers are installed.

III. Well responsibility - D. L. Reese or G. G. Francis.

DEVELOPMENT PLAN FOR U.S.G.S. APPROVAL OF SURFACE USE
MOUNTAIN FUEL SUPPLY COMPANY DRILLING WELLS

Well Name - Clay Basin Well No. 34-S

Field or Area - Clay Basin, Daggett County, Utah

1. Existing Roads -

- A) Proposed well site as staked - Refer to well location plat No. M-12386 for location of well access road and directional reference stakes.
- B) Route and distance from nearest town or locatable reference point to where well access route leaves main road - Refer to lateral map No. M-9030. From the Wyoming-Utah State Line to Rock Springs, Wyoming is 50 miles.
- C) Access road to location - Refer to lateral map No. M-9030 and well site map No. M-12386 for access road from Wyoming-Utah State Line to Clay Basin Unit Well No. 34-S.
- D) If exploratory well, all existing roads within a 3-mile radius of well site - Not an exploratory well.
- E) If development well, all existing roads within a 1-mile radius - This will be a storage development well. Refer to later map No. M-9030 for existing roads.
- F) Plans for improvement and/or maintenance of existing roads - All existing roads will be maintained as needed by Mountain Fuel equipment. No existing roads will be improved.

2. Planned Access Road -

- A) Width - 16' wide from shoulder to shoulder.
- B) Maximum grade - The maximum grade on the road is 8 percent.
- C) Turnouts - No turnouts will be constructed.
- D) Drainage design - A drainage ditch on the uphill side of the road will be constructed. It will be a minimum of one foot below the surface of the road. No water diversion ditches are anticipated.
- E) Location and size of culverts and description of major cuts and fills -
 - 1) For culvert size and location see drawing No. M-12386.
 - 2) No sidehill cuts to be made.
- F) Surfacing material - No surfacing material will be needed either on the road of location.
- G) Necessary gates, cattle guards or fence cuts - No cattle guards, gates, or fence cuts are anticipated.
- H) New or reconstructed roads - No existing roads will need improvement. Refer to area map No. M-9030 and location plat No. M-12386.

3. Location of Existing Wells -

- A) Water wells - None within a one mile radius.
- B) Abandoned wells - None within a one mile radius.
- C) Temporarily abandoned wells - None within a one mile radius.

- D) Disposal wells - None within a one mile radius.
- E) Drilling wells - Clay Basin Well Nos. 29-S and 31-S are proposed wells. Refer to area map No. M-9030.
- F) Producing wells -
- G) Shut-in wells - None within a one mile radius.
- H) Injection wells - At present, Unit Nos. 4, 6, and 10 are injection wells.
- I) Monitoring or observation wells for other resources - None within a one mile radius.
4. Location of Existing And/Or Proposed Facilities - Refer to area map No. M-9030.
- A) 1) Tank batteries - None within a one mile radius.
- 2) Production facilities - Each productive gas well has its own production facilities. Also, a compressor plant is located near Unit Well No. 3. Also, a compressor plant for injection is being built near Unit Well No. 3.
- 3) Oil gathering lines -
No oil gathering lines are located in the Clay Basin area.
- 4) Gas gathering lines - Lateral Nos. 432, 292, and 402 are surface gas lines. Lateral Nos. 49 and 46 are buried gas lines.
- 5) Injection lines - Several injection/withdrawal lines are located within a one mile radius. Refer to area map No. M-9030.
- 6) Disposal lines -
None within a one mile radius.
- B) 1) Proposed location and attendant lines by flagging if off the well pad -
The well will be used as a gas storage well. A 6-inch buried line will be installed from the well to the central dehydration facilities as shown on drawing No. M-9030.
- 2) Dimensions of facilities - Refer to drawing No. M-12205.
- 3) Construction methods and materials - No construction materials are anticipated. The dirt work will be done with a back hoe, i.e., ditches, dehydration base, tankbase, etc.
- 4) Protective measures and devices to protect livestock and wildlife -
The sump pit will be fenced as shown on drawing No. M-12205.
- C) Plans for rehabilitation of disturbed area no longer needed for operations after construction is completed - After construction is complete, areas of non-use will be restored and needed.
5. Location and Type of Water Supply -
- A) Location of water - The water withdrawal point on Red Creek is located in the SW 1/4 of Section 22, T.12N., R.105W., of the 6th P.M., Sweetwater County, Wyoming.
- B) Method of transporting water - Water will be hauled by tank truck from Red Creek to Unit Well No. 34-S. The well access road, as shown on drawing No. M-9030, will be used as the water haul road.

C) Water well to be drilled on lease - No water well will be drilled.

6. Source of Construction Material -

A) Information - No construction material will be used.

B) Identify if from Federal or Indian land -

C) Where materials are to be obtained and used -

D) Access roads crossing Federal or Indian lands -

7. Method for Handling Waste Disposal -

A-D) Cuttings, drilling fluids, produced fluids, and sewage will be placed in the mud pit.

E) Garbage and other waste material will be placed in the burn pit.

F) After drilling operations have been completed, the location will be cleared of all litter, and the trash will be burned in the burn pit. The burn pit will be covered over. The mud pit liquids will be pumped out and dumped on the existing roads. The mud pit will be covered over.

8. Ancillary Facilities - There now is a camp located in the NE 1/4 of Section 21, T.3N., R.24E. with housing and general camp facilities. A landing strip is located on the north line of Section 21. Water is piped to the camp from a spring to the west.

9. Well Site Layout -

See drawing Nos. M-12386 and M-12387.

10. Plans for Restoration of Surface -

A) After drilling operations, the well site will be cleared and cleaned and the burn pit filled in. Should the well be a dry hole, the surface will be restored to the extent that it will blend in with the landscape. The reserve pit liquids will be pumped out and dumped on the existing roads.

B) Revegetation and rehabilitation of the location and access road will be done to comply with Bureau of Land Management recommendations.

C) Prior to rig release, pits will be fenced and so maintained until clean up.

D) If oil is in the mud pit, overhead flagging will be installed to keep birds out.

E) Clean up will begin within two months after drilling operations have been completed and the land will be restored at this time.

11. Other Information -

A) The location lies at the base of a small hill. The slope is down to the east at $\pm 6\%$. The soil is sandy clay. The vegetation is range grass and sagebrush.

B) The surface belongs to the U.S. Government.

C) Water can be located in Red Creek. The Clay Basin camp is occupied by Mountain Fuel personnel. No historical, archaeological, or cultural sites are in the area to my knowledge.

12. Lessee's or Operator's Representative -

D. E. Dallas, Drilling Superintendent, P. O. Box 1129, Rock Springs, Wyoming 82901, telephone 307-362-5611.

13. Certification -

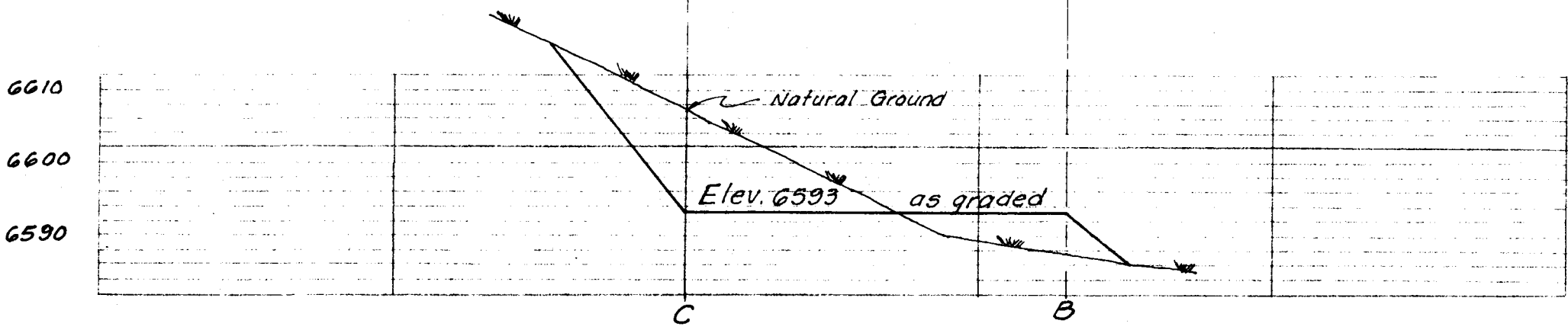
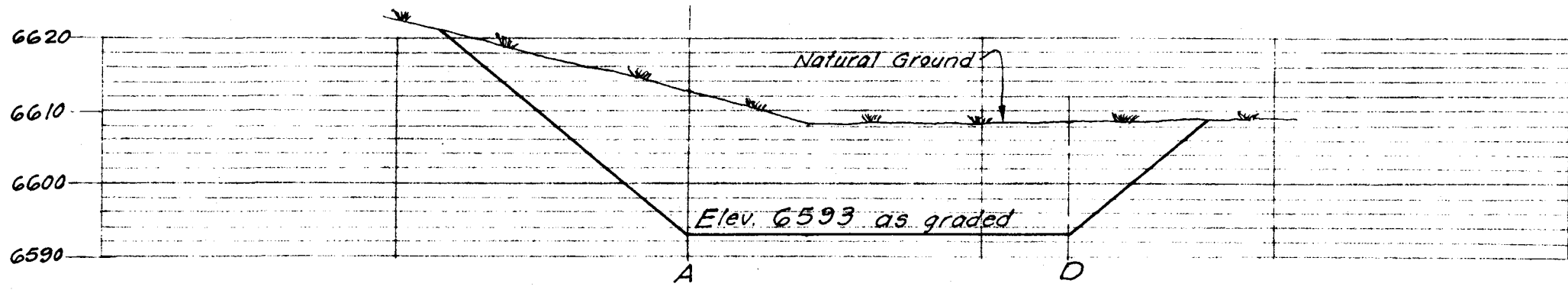
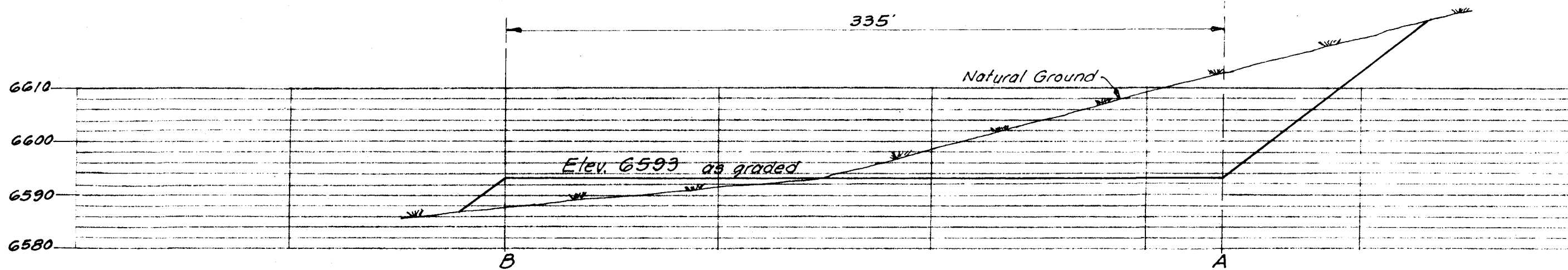
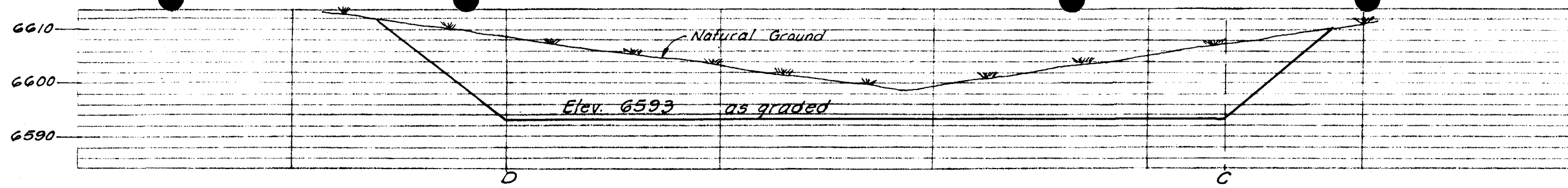
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by Mountain Fuel Supply Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

Date _____

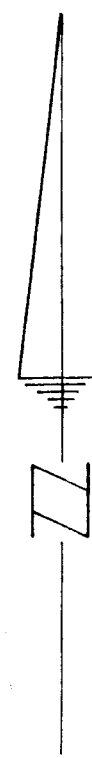
Name Bob Dallas / Jan

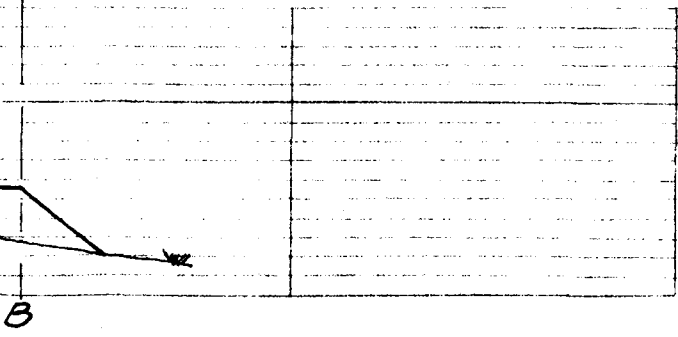
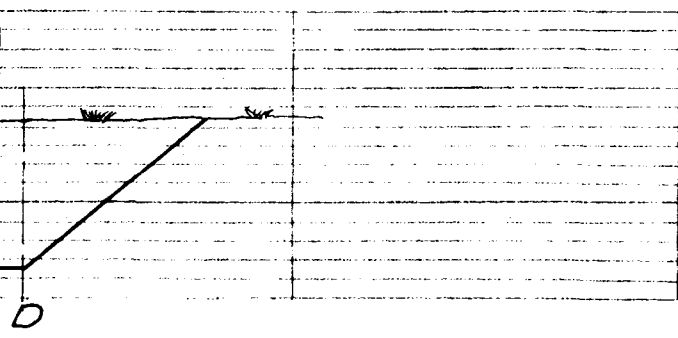
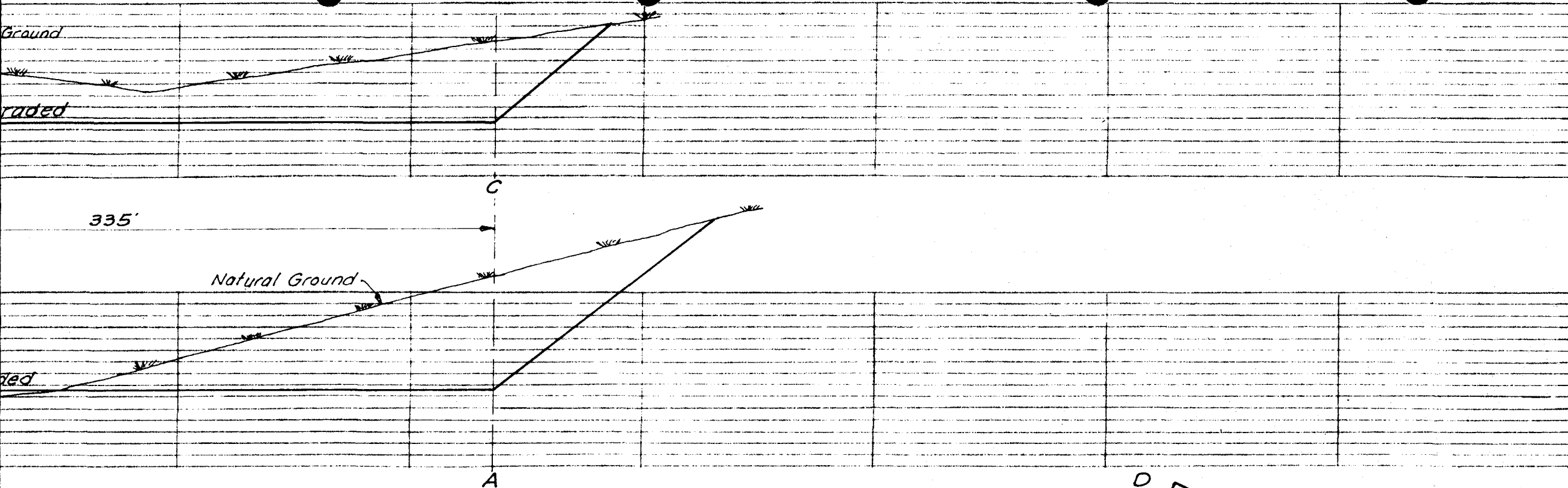
Title Drilling Superintendent

cdk

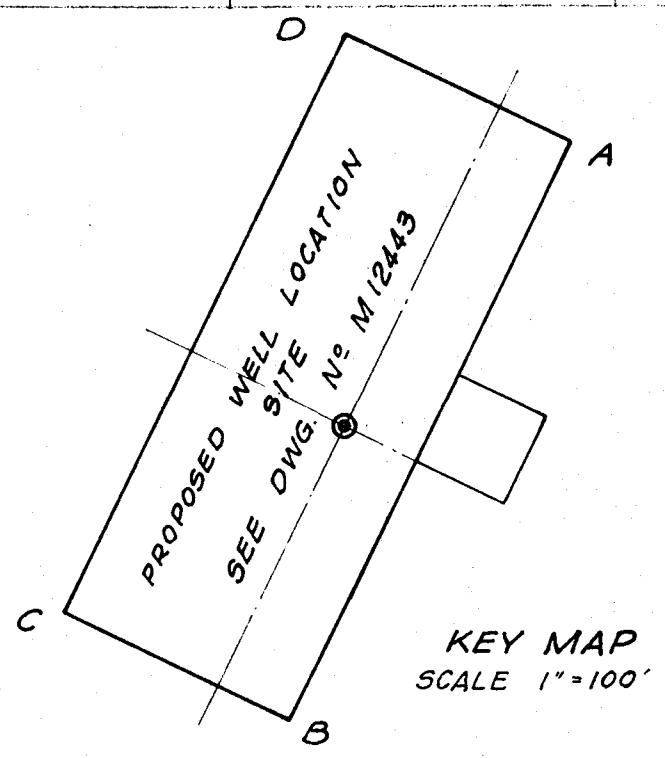


PROFILE SECTIONS- PROPOSED GRADED LOCATION
 SCALE
 HORIZ: 1" = 50'
 VERT: 1" = 20'




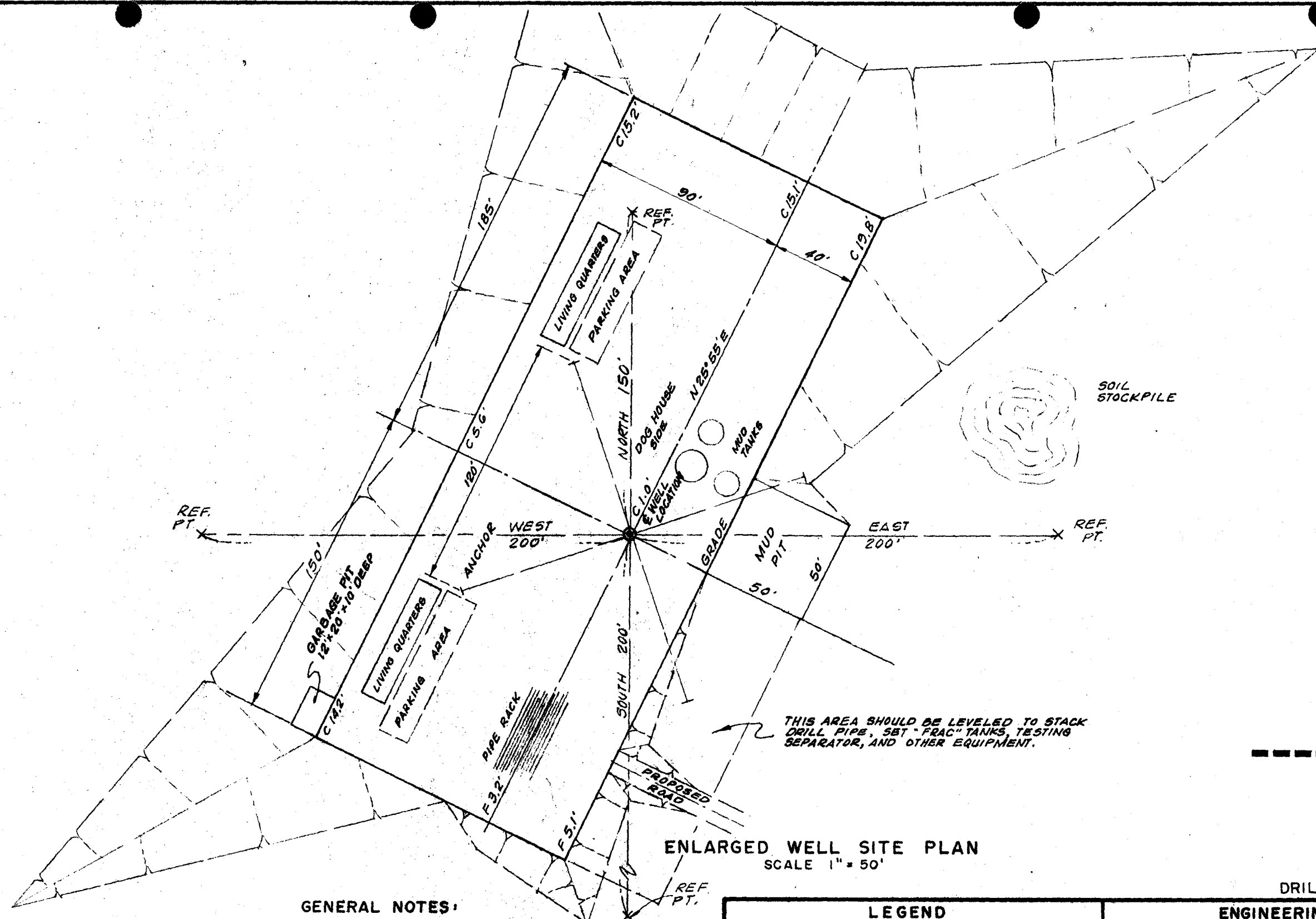


GRADED LOCATION



KEY MAP
SCALE 1"=100'

REVISIONS				 MOUNTAIN FUEL RESOURCES, INC.
NO.	DESCRIPTION	DATE	BY	
				PROFILES FOR CLAY BASIN UNIT WELL No 34-S WELL LOCATION SITE
DRAWN: 2-23-77 AHW.			SCALE: AS NOTED	DRWG. NO. M-12444 2/2
CHECKED: GEL SMF				
APPROVED: RWH				



GENERAL NOTES:

At sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration of the site when required.

Mud pit and garbage pit are to be fenced, *unlined*.

For well location profiles see Dwg. No M-12444.

Area of well location = 1.0 Acres.

ENLARGED WELL SITE PLAN SCALE 1" = 50'

LEGEND

- ⊕ WELL
- ⊕ STONE CORNER
- ⊕ PIPE CORNER

DRILLING W.O.

ENGINEERING RECORD

SURVEYED BY J. D. Goffredson 2-21-77

REFERENCES G.L.O. PLAT ☒ U.S.G.S. QUAD. MAP ☐

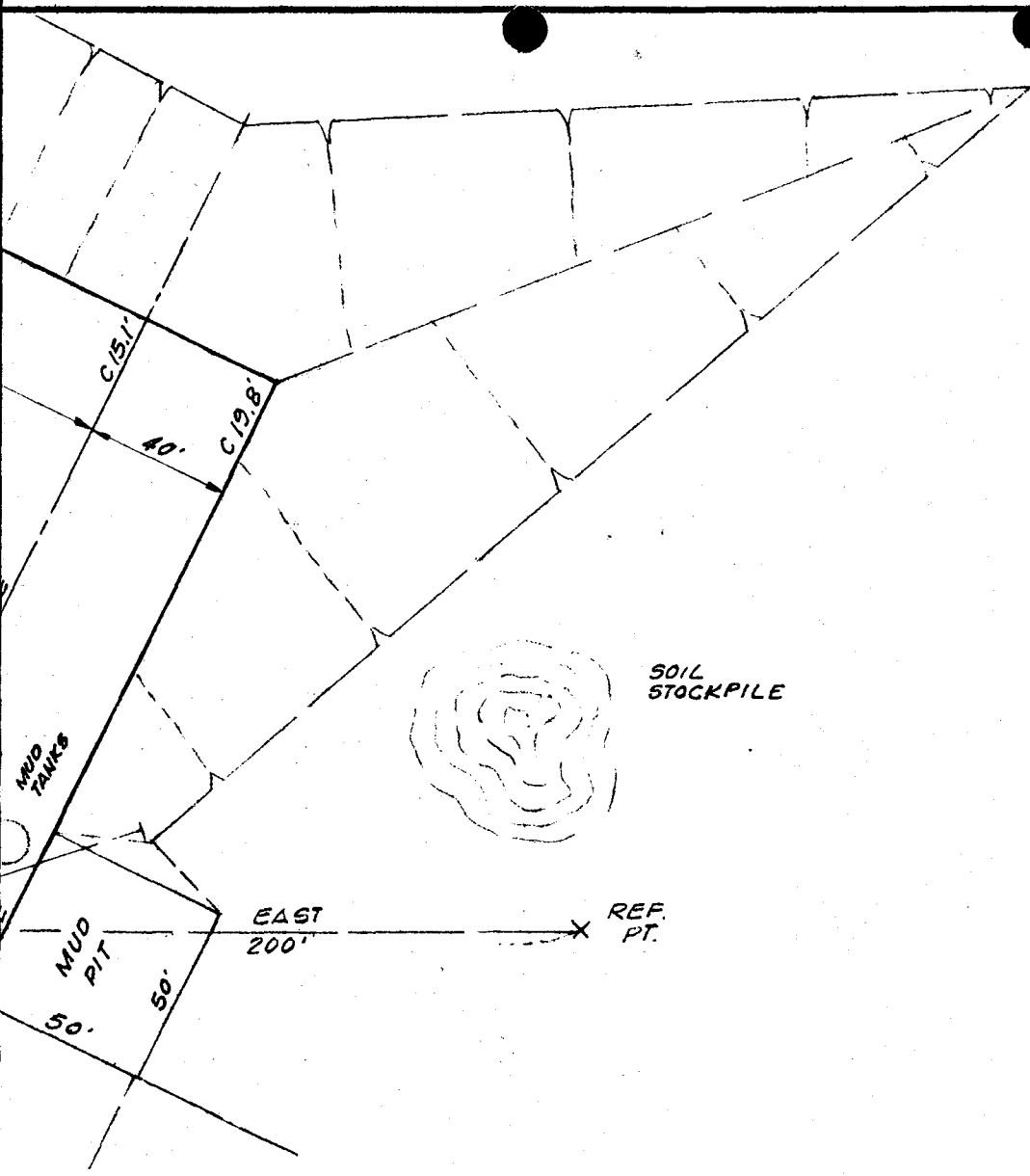
LOCATION DATA

FIELD CLAY BASIN

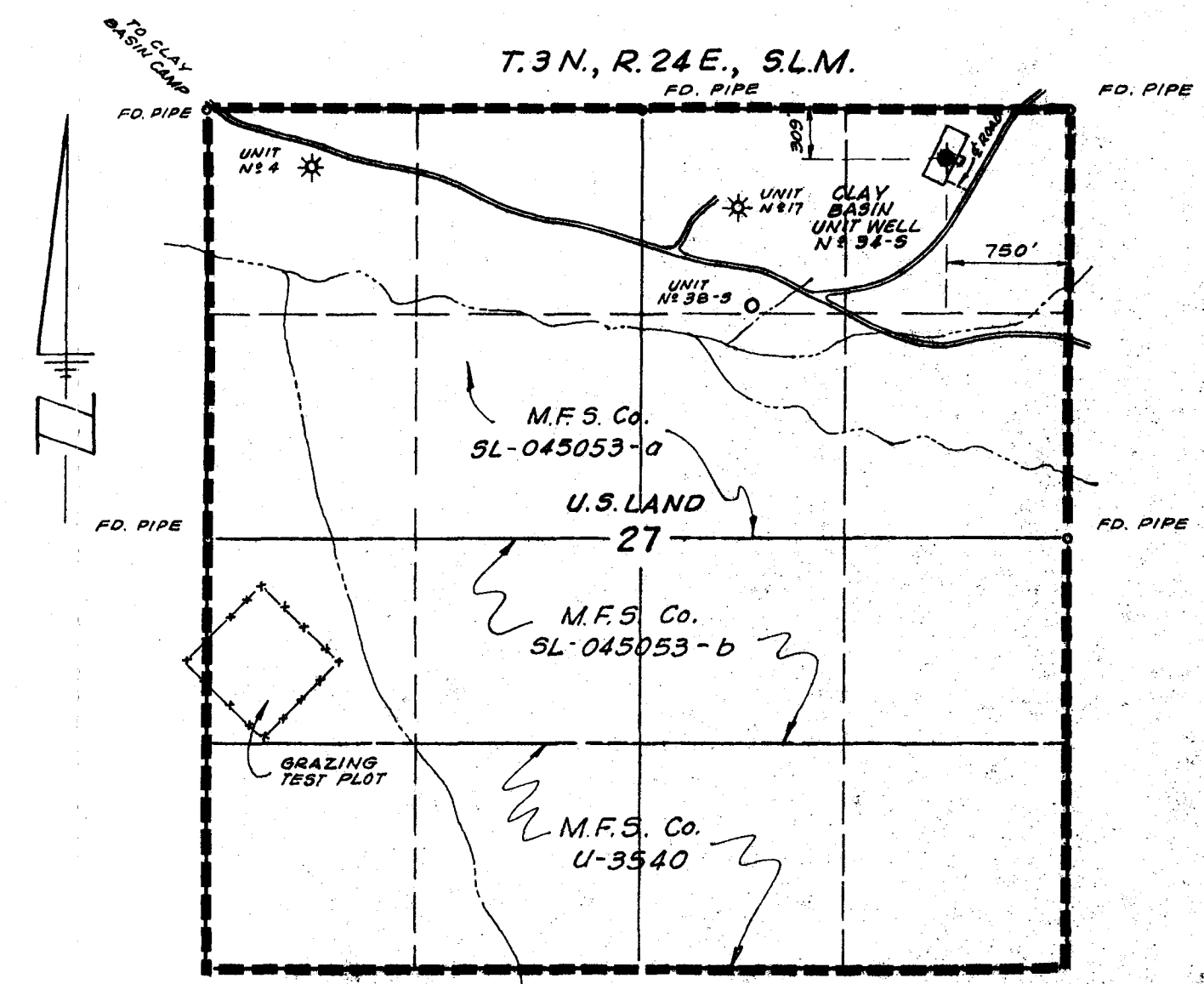
LOCATION: NE 1/4, NE 1/4, Sec. 27, T. 3N., R. 24E.,
Salt Lake Meridian 309' FNL, 750' FEL

Daggett County, Utah

WELL ELEVATION: 6593 (As Graded) by electronic
vertical angle elevations from M.F.S. Co Bench Mark
8127.



ENLARGED WELL SITE PLAN
SCALE 1" = 50'







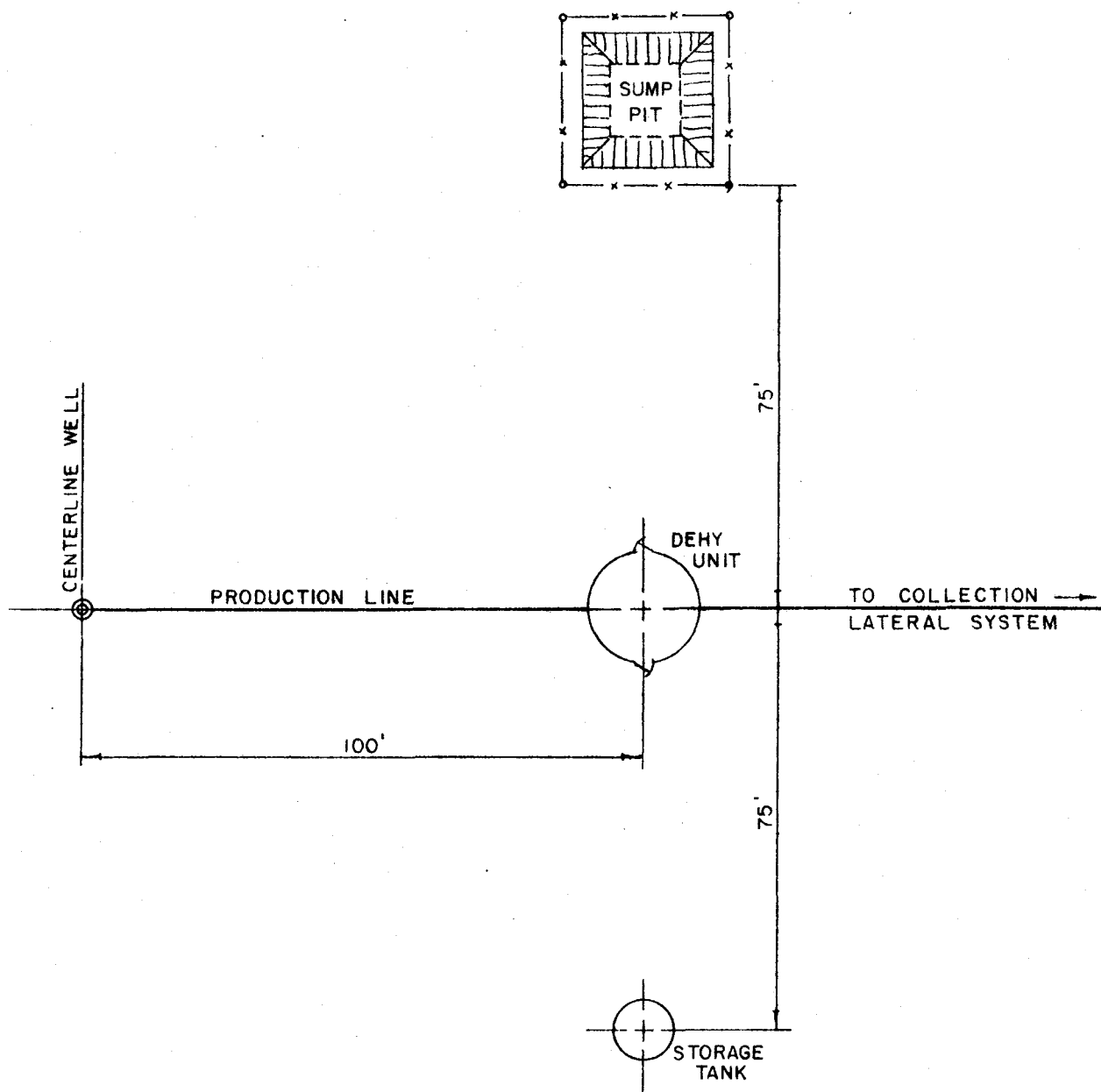
LOCATION PLAN
SCALE 1" = 1000'


This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

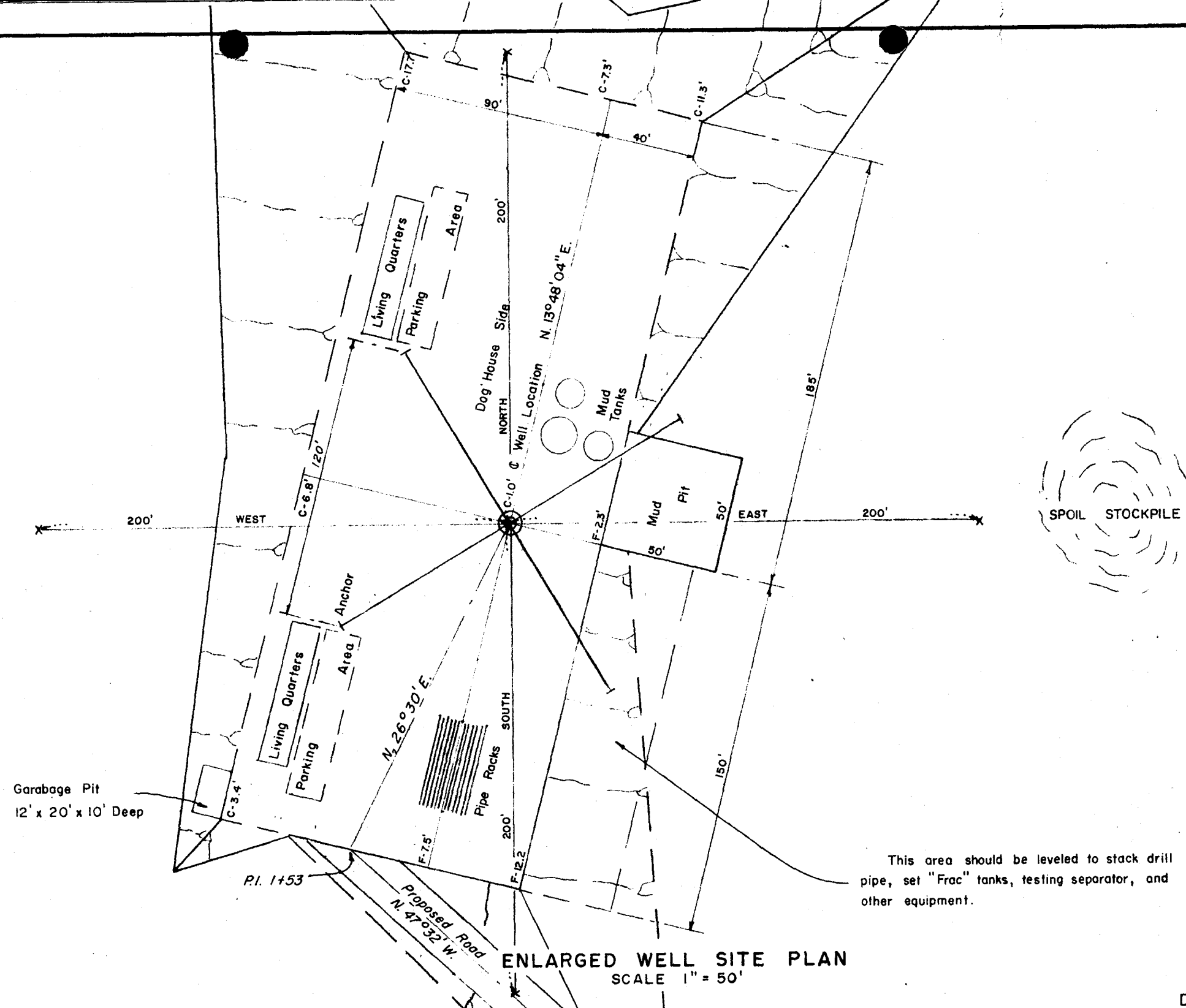
[Signature]
ENGINEER
UTAH REGISTRATION L.S. N° 3521

DRILLING W.O.

LEGEND		ENGINEERING RECORD		REVISIONS				 MOUNTAIN FUEL RESOURCES, INC.	
 WELL  STONE CORNER  PIPE CORNER	SURVEYED BY	J. D. Goffredson 2-21-77		NO.	DESCRIPTION	DATE	BY	CERTIFIED WELL LOCATION AND WELL SITE PLAN CLAY BASIN UNIT WELL No 34-S	
	REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>							
	LOCATION DATA								
	FIELD	CLAY BASIN							
	LOCATION: NE 1/4, NE 1/4, Sec. 27, T.3N., R.24E., Salt Lake Meridian 309' FNL, 750' FEL								
	Daggett County, Utah								
	WELL ELEVATION: 6599 (As Graded) by electronic vertical angle elevations from M.F.S. Co Bench Mark 4127.							DRAWN: 1-23-76 AHW SCALE: AS NOTED	
								CHECKED: GCL SMF	DRWG. NO. M-12443 1/2
								APPROVED: RWH	



REVISIONS				 MOUNTAIN FUEL RESOURCES INC.
NO.	DESCRIPTION	DATE	BY	
				TYPICAL PRODUCTION FACILITIES LAYOUT FOR CLAY BASIN UNIT WELL N^o 34-S
DRAWN: 7/9/76 FJC		SCALE: NONE		DRWG. NO. M-12205
CHECKED:				
APPROVED:				



GENERAL NOTES:

At sites where topsoil is present, same is to be removed and stored on the adjacent land for restoration of the site when required.

Mud pit and garbage pit are to be fenced, unlined.

For well location profiles see drawing number M-12386

Area for well location 1.0 acres.

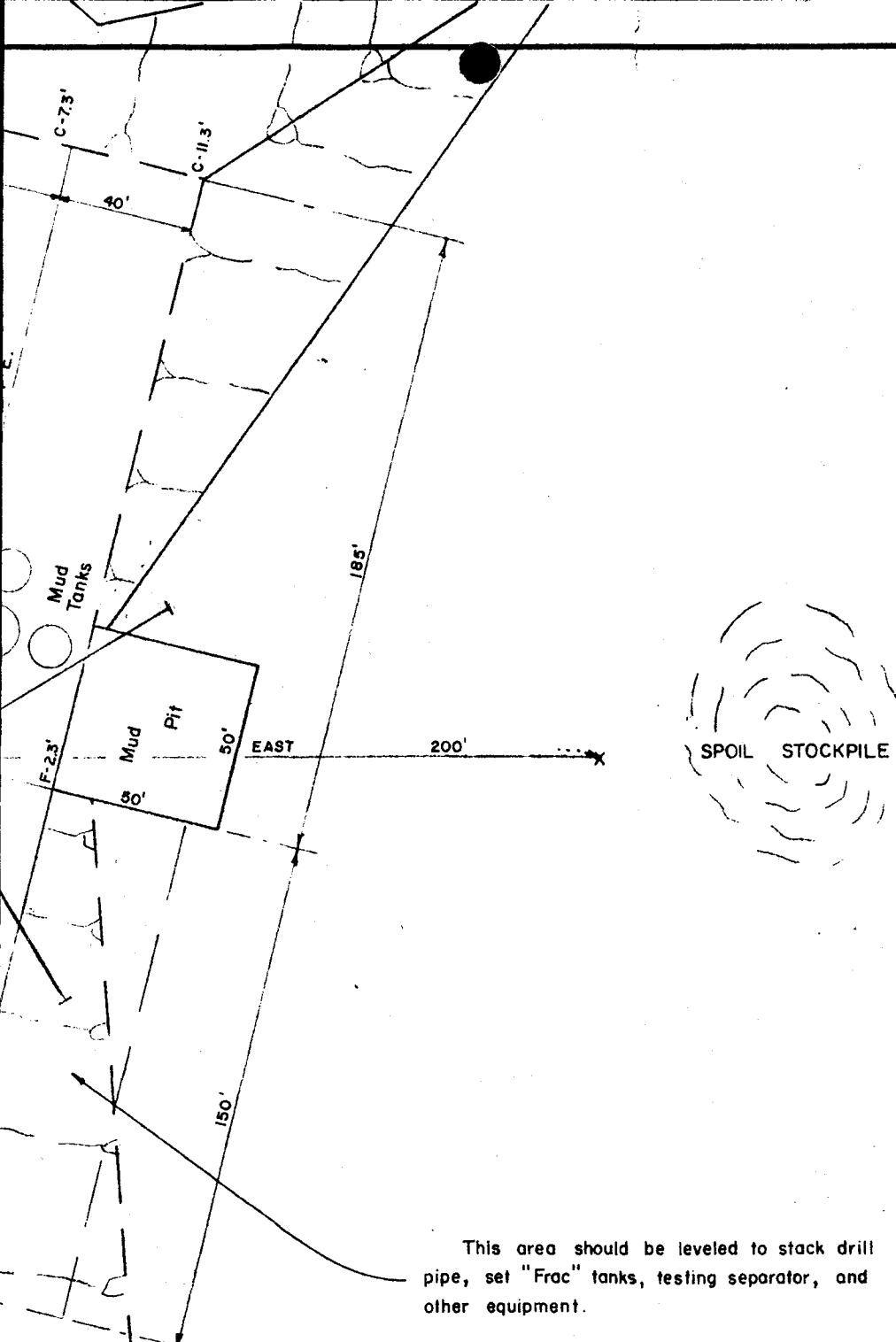
LEGEND

- ⊕ WELL
- ⊕ STONE CORNER
- ⊕ PIPE CORNER

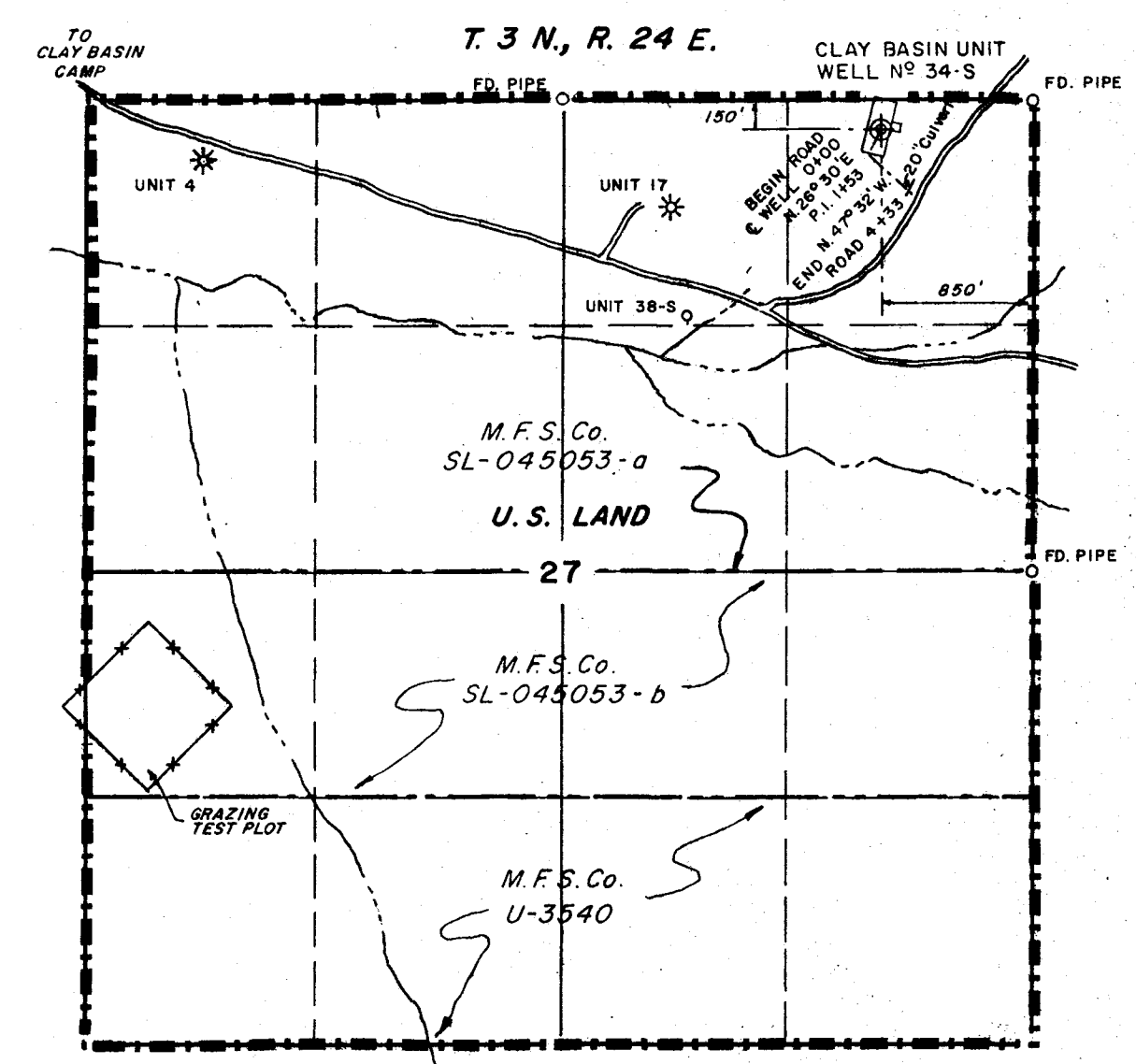
DRILLING W.O.

ENGINEERING RECORD

SURVEYED BY	S.M. Fabian 1/26/77
REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>
LOCATION DATA	
FIELD	Clay Basin
LOCATION: NE 1/4, NE 1/4, Section 27, T.3N., R.24E., Salt Lake Meridian, 150' FNL, 850' FEL	
Daggett County, Utah	
WELL ELEVATION: 6612 (As Graded) by electronic vertical angle elevations from M.F.S.Co. bench mark Δ 127	



ENLARGED WELL SITE PLAN
SCALE 1" = 50'




LOCATION PLAN
SCALE 1" = 1000'

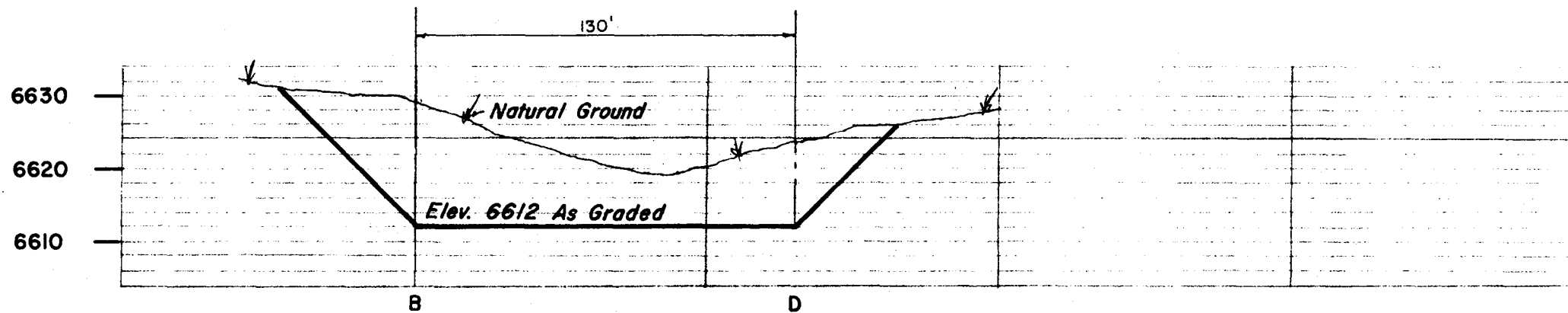
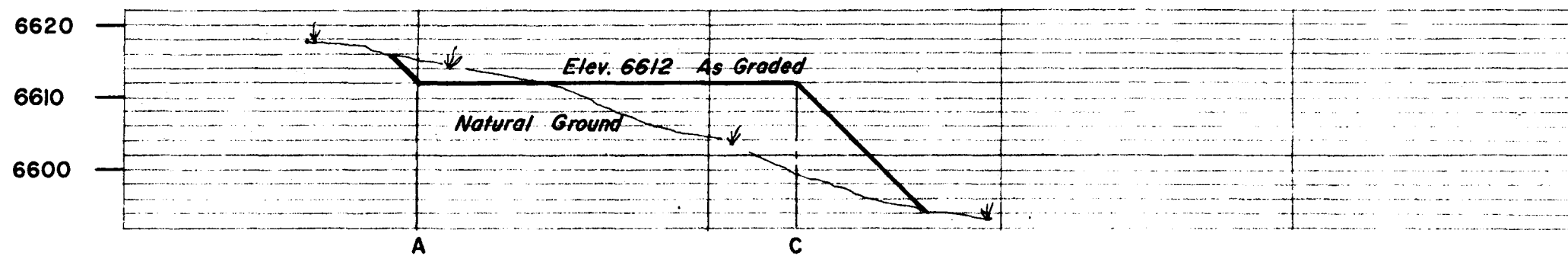
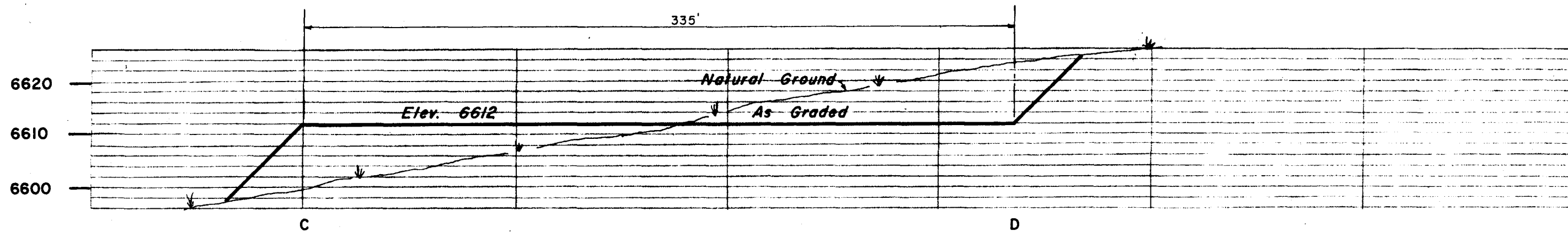
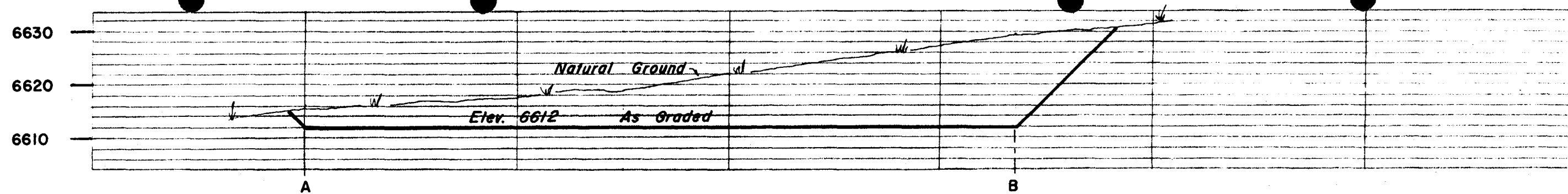
This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge.

Christensen
ENGINEER

UTAH REGISTRATION L.S. NO 3521

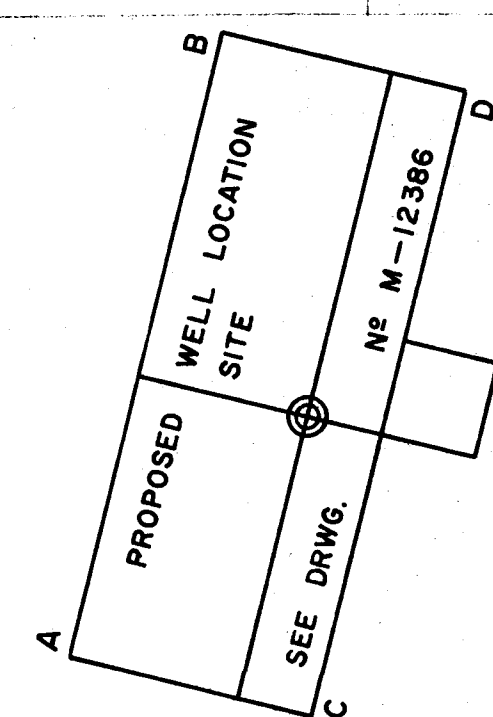
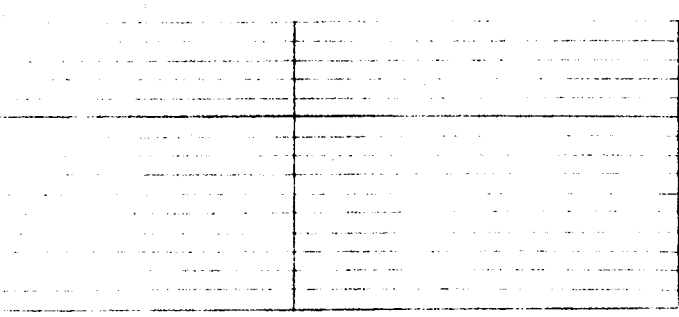
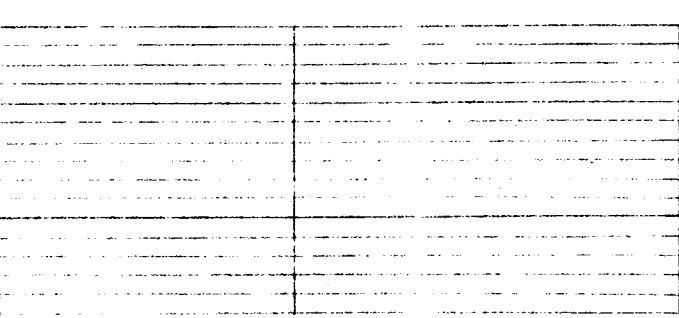
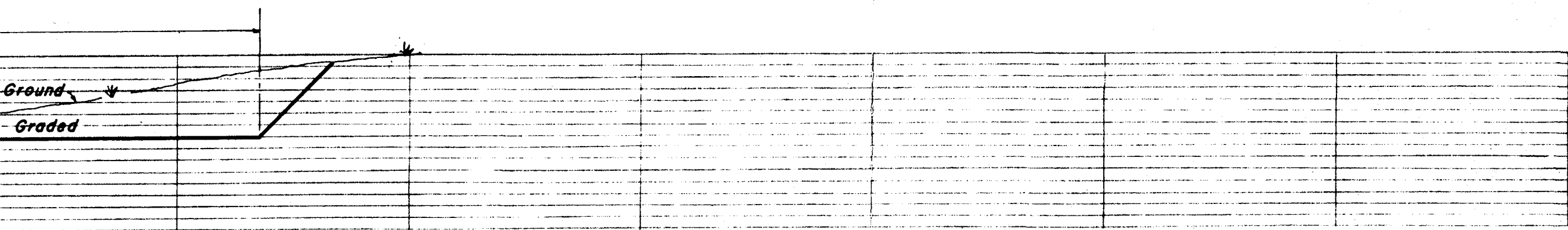
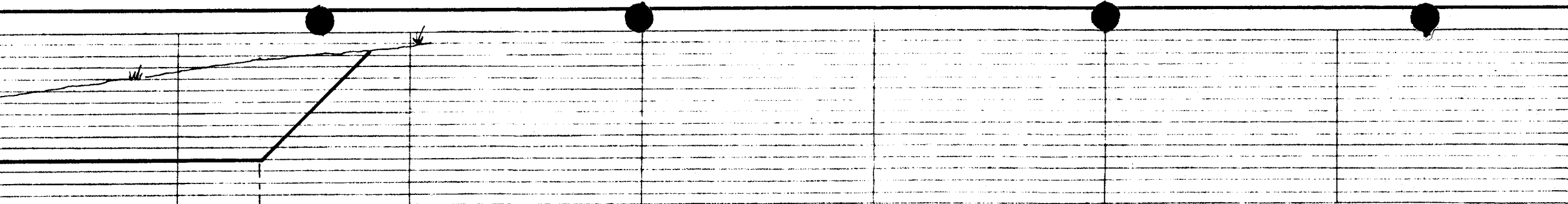
DRILLING W.O.

LEGEND		ENGINEERING RECORD		REVISIONS				 MOUNTAIN FUEL RESOURCES INC. CERTIFIED WELL LOCATION AND WELL SITE PLAN CLAY BASIN UNIT WELL NO 34-S DRAWN: 1/28/77 C.R.W. SCALE: AS NOTED CHECKED: Gel SMF DRWG. NO. M-12386 APPROVED: RWH
⊕	WELL	SURVEYED BY	S.M. Fabian 1/26/77	NO.	DESCRIPTION	DATE	BY	
⊕	STONE CORNER	REFERENCES	G.L.O. PLAT <input checked="" type="checkbox"/> U.S.G.S. QUAD. MAP <input type="checkbox"/>					
⊕	PIPE CORNER	LOCATION DATA						
		FIELD	Clay Basin					
		LOCATION: NE 1/4, NE 1/4, Section 27, T.3N., R.24E., Salt Lake Meridian, 150' FNL, 850' FEL						
		Daggett County, Utah						
		WELL ELEVATION: 6612 (As Graded) by electronic vertical angle elevations from M.F.S.Co. bench mark Δ 127						




PROFILE SECTION — PROPOSED GRADED LOCATION

Scale
HORIZ. 1" = 50'
VERT. 1" = 20'



KEY MAP
Scale 1" = 100'

REVISIONS				 MOUNTAIN FUEL RESOURCES INC.
NO.	DESCRIPTION	DATE	BY	
				PROFILES FOR CLAY BASIN UNIT WELL Nº 34-S WELL LOCATION SITE
DRAWN: 1/28/77 C.R.W.		SCALE: AS NOTED		DRWG. NO. M-12387 2/2
CHECKED: GCL SMF		APPROVED: RWH		

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/> Gas Storage		5. LEASE DESIGNATION AND SERIAL NO. SLC 045053 a
2. NAME OF OPERATOR Mountain Fuel Resources, Inc.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME -
3. ADDRESS OF OPERATOR P. O. Box 1129, Rock Springs, Wyoming 82901		7. UNIT AGREEMENT NAME Clay Basin Gas Storage Agreement
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 309' FNL, 750' FEL NE NE		8. FARM OR LEASE NAME Unit Well
14. PERMIT NO. API No.: 43-009-30025		9. WELL NO. 34-S
15. ELEVATIONS (Show whether DF, RT, GR, etc.) KB 6606.90' GR 6593'		10. FIELD AND POOL, OR WILDCAT Clay Basin Gas Storage
		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA NE NE 27-3N-24E
		12. COUNTY OR PARISH Daggett
		13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <u>Supplementary history</u> <input checked="" type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.) *

TD 6025', spudded May 7, 1977, landed 9-5/8"OD, 32.3#, H-40, casing at 259.37' and set with 180 sacks regular type G cement treated with 3% calcium chloride, cement in place April 27, 1977, logging.

18. I hereby certify that the foregoing is true and correct
SIGNED [Signature] TITLE Manager, Drilling and Petroleum Engineering DATE May 14, 1977

(This space for Federal or State office use)

APPROVED BY _____ TITLE _____ DATE _____
CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE*
(Other instructions on re-
verse side)

Form approved.
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

SLC 045053 a

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

Clay Basin Gas
Storage Agreement

8. FARM OR LEASE NAME

Unit Well

9. WELL NO.

34-S

10. FIELD AND POOL, OR WILDCAT

Clay Basin Gas Storage

11. SEC., T., R., M., OR BLK. AND
SURVEY OR AREA

NE NE 27-3N-24E

12. COUNTY OR PARISH 13. STATE

Daggett

Utah

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.
Use "APPLICATION FOR PERMIT—" for such proposals.)

1.

OIL
WELL ☐

GAS
WELL ☐

OTHER

Gas Storage

2. NAME OF OPERATOR

Mountain Fuel Resources, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*
See also space 17 below.)
At surface

309' FNL, 750' FEL NE NE

14. PERMIT NO.

API No.: 43-009-30025

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

KB 6525.90'

GR 6512'

16.

Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☐

(Other)

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

ABANDON* ☐

CHANGE PLANS ☐

SUBSEQUENT REPORT OF:

WATER SHUT-OFF ☐

FRACTURE TREATMENT ☐

SHOOTING OR ACIDIZING ☐

(Other) Supplementary history ☒

(NOTE: Report results of multiple completion on Well
Completion or Recompletion Report and Log form.)

REPAIRING WELL ☐

ALTERING CASING ☐

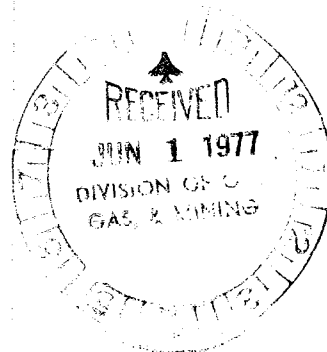
ABANDONMENT* ☐

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)*

TD 6025', PBD 5940', landed 7"OD, 23#, K-55, casing at 6007.64' KBM and set with 500 sacks 50-50 Pozmix cement treated with 2% gel, cement in place 5-15-77, rig released May 15, 1977, moved in completion tools on May 21, 1977, perforated Dakota from 5804' to 5834' with 2 jumbo jet shots per foot, set packer at 5700', landed 4-1/2" tubing at 5706.30' KBM, swabbed, flowed for 2 hours, shut well in, rig released 5-25-77.

Final report.

NOTE: KB and GR elevations were corrected.



18. I hereby certify that the foregoing is true and correct

SIGNED

B. D. Meyer

TITLE

Manager, Drilling and
Petroleum Engineering

DATE

May 31, 1977

(This space for Federal or State office use)

APPROVED BY

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE

(See other in-
structions on
reverse side)Form approved.
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG *

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☐ DRY ☐ Other Gas Storage

b. TYPE OF COMPLETION:

NEW WELL ☒ WORK OVER ☐ DEEP-EN ☐ PLUG BACK ☐ DIFF. RESVR. ☐ Other _____

2. NAME OF OPERATOR

Mountain Fuel Resources, Inc.

3. ADDRESS OF OPERATOR

P. O. Box 1129, Rock Springs, Wyoming 82901

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)

At surface 309' FNL, 750' FEL NE NE

At top prod. interval reported below

At total depth

14. PERMIT NO.

DATE ISSUED

API No.: 43-009-30025

15. DATE SPUDDED

5-7-77

16. DATE T.D. REACHED

5-13-77

17. DATE COMPL. (Ready to prod.)

5-25-77

18. ELEVATIONS (DF, RKB, RT, GR, ETC.)*

KB 6525.90' GR 6512'

19. ELEV. CASINGHEAD

20. TOTAL DEPTH, MD & TVD

6025'

21. PLUG, BACK T.D., MD & TVD

5940'

22. IF MULTIPLE COMPL.,
HOW MANY*23. INTERVALS
DRILLED BY

ROTARY TOOLS

0-6025'

CABLE TOOLS

24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)*

5804 - 5834'

Dakota

25. WAS DIRECTIONAL
SURVEY MADE

No

26. TYPE ELECTRIC AND OTHER LOGS RUN

Dual Laterolog, Compensated Densilog

27. WAS WELL CORED

No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
9-5/8	32.3	259.37	12-1/4	180	0
7	23	6007.64	8-1/2	500	0

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
					4-1/2	5706.30	5700

31. PERFORATION RECORD (Interval, size and number)

5804-5834', jumbo jet, 2 holes per foot

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED

33.* PRODUCTION

DATE FIRST PRODUCTION		PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump)					WELL STATUS (Producing or shut-in)	
-		Flowing - GAS STORAGE					Shut-in	
DATE OF TEST	HOURS TESTED	CHOKE SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.		GAS-OIL RATIO
-	-	-	→					
FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.		OIL GRAVITY-API (CORR.)	
-	-	→	-	-	-			

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.)

TEST WITNESSED BY

35. LIST OF ATTACHMENTS

Logs as above, Well Completion to be sent at a later date.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records

SIGNED

G. L. Myers

TITLE

Petroleum Engineering

DATE

May 31, 1977

*(See Instructions and Spaces for Additional Data on Reverse Side)

INSTRUCTIONS

General: This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 33, below regarding separate reports for separate completions.

If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

Item 4: If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

Item 18: Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. **Items 22 and 24:** If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 33. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

Item 29: "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

Item 33: Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

37. SUMMARY OF POROUS ZONES: SHOW ALL IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES			38. GEOLOGIC MARKERS		
FORMATION	TOP	BOTTOM	NAME	MEAS. DEPTH	TRUE VERT. DEPTH
			Log tops:		
			Mancos	0'	
			Frontier	5412'	
			Mowry	5612'	
			Dakota	5778'	
			Morrison	5987'	

COMPLETION REPORT

Well: Clay Basin Unit No. 34-S Date: September 28, 1977

Area: Clay Basin Lease No: SLC 045053 a

☐ New Field Wildcat ☒ Development Well ☐ Shallower Pool Test
☐ New Pool Wildcat ☐ Gas Storage ☐ Deeper Pool Test
☐ Extension

Location: 309 feet from North line, 750 feet from East line
NE $\frac{1}{4}$ NE $\frac{1}{4}$

Section 27, Township 3 North, Range 24 East

County: Daggett State: Utah

Operator: Mountain Fuel Resources, Inc.

Elevation: KB 6525.90 Gr 6512 Total Depth: Driller 6025 Log 6014

Drilling Commenced: May 7, 1977 Drilling Completed: May 13, 1977

Rig Released: May 15, 1977 Well Completed: May 25, 1977

Sample Tops: (unadjusted)

Mancos Surface
Frontier 5507
Mowry 5668
Dakota 5852
Morrison 5987

Log Tops:

Mancos Surface
Frontier 5412
Mowry 5612
Dakota 5778
Morrison 5987

Sample Cuttings: None

Status: Gas storage injection/withdrawal well

Producing Formation: Dakota

Perforations: 5804-5834, jumbo jet, w/2 holes per ft.

Stimulation: None

Production: None reported

Plug Back Depth: 5940

Plugs: None

Hole Size: 12-1/4" to 310; 8-3/4" to 5576; 8-1/2" to 6025

Casing/Tubing: 9-5/8" to 259.37, 7" to 6007.64; 4-1/2" to 5706.30, set in
Baker FB-1 packer at 5700

Logging - Mud: None

Mechanical: Dual Laterolog (5200-6025.4)
Compensated Densilog (4014-6014)

Contractor: Westburne Drilling, Inc.

Completion Report Prepared by: M. L. Tomac

Remarks: API No. 4300930025

OCT 26 1977

COMPLETION REPORT (cont.)

Page 2

Well: Unit No. 34-S

Area: Clay Basin

Cored Intervals (recovery): None



Tabulation of Drill Stem Tests: None

<u>No.</u>	<u>Interval</u>	<u>IHP</u>	<u>IFP (min.)</u>	<u>ISIP (min.)</u>	<u>FFP (min.)</u>	<u>FSIP (min.)</u>	<u>FHP</u>	<u>Samples Caught</u>	<u>Remarks</u>
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Ch. 14 June 88

IN

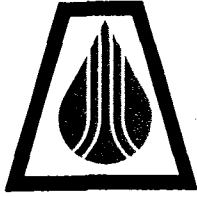
access

 meternin
 wellhead

access

42-381 50 SHEETS 5 SQUARE
42-382 100 SHEETS 5 SQUARE
42-389 200 SHEETS 5 SQUARE





QUESTAR PIPELINE COMPANY

79 SOUTH STATE STREET • P. O. BOX 11450 • SALT LAKE CITY, UTAH 84147 • PHONE (801) 530-2400
June 23, 1988

CERTIFIED MAIL

RETURNED RECEIPT REQUESTED

#P 879 571 459

Bureau of Land Management
Utah State Office
CFS Financial Center
324 S. State Street
Salt Lake City, UT 84111-2303

Re: Name Change
Mountain Fuel Resources, Inc.
to Questar Pipeline Company

Gentlemen:

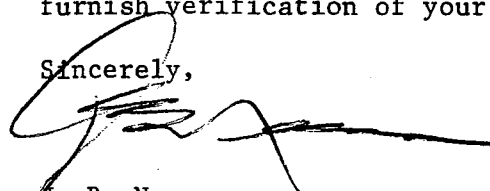
Enclosed for your files and information is a certified copy of the Articles of Amendment to the Articles of Incorporation of Mountain Fuel Resources, Inc. dated March 7, 1988, indicating that Mountain Fuel Resources, Inc. changed its name to Questar Pipeline Company.

Questar Pipeline Company holds interests in the following Federal Oil and Gas Leases in Utah:

Novels on gas hold.
with CA - U^D9712-A - Questar Energy Co. 100%
CA well - RT - OR's Mt. Fuel Resources - U-11246 - Assignment pending to "Questar Energy Co."
SLC-045051(A) > OR'S
SLC-045051(B) > OR'S
SLC-045053(A) > OR'S
SLC-045053(B) > OR'S
SLC-062508 - OR'S
SLC-070555 - OR'S
SLC-070555(A) - OR'S
? Agreement No. 14-08-0001-16009
(Clay Basin Gas Storage Agreement)

Please note and adjust your records in accordance with the above and furnish verification of your receipt of this notice to the undersigned.

Sincerely,


J. B. Neese
Senior Landman

JBN/sdg

Enclosure

List of Leases

Overriding Royalties

U-09712-A
U-011246

Operating Rights

SL-045051-A & B
SL-045053-A & B
SL-062508
SL-0700555
SL-070555-A
SL-045049-A & B

Clay Basin Gas Storage Agreement
Agreement No. 14-08-0001-16009

3100
U-09712-A
et al
(U-942)
C. Seare
3/9/89

DECISION

Questar Pipeline Company : Oil and Gas Leases
P.O. Box 11450 : U-09712-A et al
Salt Lake City, Utah 84147 :

Corporate Name Change Recognized

Acceptable evidence has been received establishing that Mountain Fuel Resources, Inc. has changed their name to Questar Pipeline Company. Accordingly, the surviving company, Questar Pipeline Company, is recognized as holding all interests in Federal oil and gas leases which were held by Mountain Fuel Resources, Inc. We are changing our records with respect to the attached listing of oil and gas leases. If there are any other leases that will be affected, please contact this office.

/s/ M. Willis

ACTING Chief, Minerals
Adjudication Section

Enclosure
List of Leases

cc: All District Offices, Utah
MMS, AFS
MMS, BRASS
920, Teresa Thompson
Clay Basin Unit File

CSeare:sl 3/9/89:1642f

RECEIVED

JAN 28 2004

DIV. OF OIL, GAS & MINING

1. GLH

2. CDW

3. FILE

Designation of Agent/Operator

Merger

3/7/1988

TO: (New Operator):

N7560-Questar Pipeline Company
PO Box 11450
Salt Lake City, UT 84147

Phone: 1-(801) 530-2019

Unit:

WELL(S)

[illegible]

Enter date after each listed item is completed

- | | | |
|----|---|--|
| 1. | (R649-8-10) Sundry or legal documentation was received from the FORMER operator on: | <u>1/13/2004</u> |
| 2. | (R649-8-10) Sundry or legal documentation was received from the NEW operator on: | <u>1/13/2004</u> |
| 3. | The new company was checked on the Department of Commerce, Division of Corporations Database on: | <u>1/14/2004</u> |
| 4. | Is the new operator registered in the State of Utah: | <u>YES</u> Business Number: <u>649172-0142</u> |
| 5. | If NO , the operator was contacted contacted on: | |

6. (R649-9-2) Waste Management Plan has been received on:

IN PLACE

7. **Federal and Indian Lease Wells:** The BLM and or the BIA has approved the merger, name change, or operator change for all wells listed on Federal or Indian leases on: 3/9/1989

8. **Federal and Indian Units:**

The BLM or BIA has approved the successor of unit operator for wells listed on: n/a

9. **Federal and Indian Communization Agreements ("CA"):**

The BLM or BIA has approved the operator for all wells listed within a CA on: n/a

10. **Underground Injection Control ("UIC")** The Division has approved UIC Form 5, Transfer of Authority to Inject, for the enhanced/secondary recovery unit/project for the water disposal well(s) listed on: N/A

DATA ENTRY:

1. Changes entered in the Oil and Gas Database on: 1/29/2004
2. Changes have been entered on the Monthly Operator Change Spread Sheet on: 1/29/2004
3. Bond information entered in RBDMS on: 1/29/2004
4. Fee wells attached to bond in RBDMS on: 1/29/2004
5. Injection Projects to new operator in RBDMS on: n/a

STATE WELL(S) BOND VERIFICATION:

1. State well(s) covered by Bond Number: 965003032

FEDERAL WELL(S) BOND VERIFICATION:

1. Federal well(s) covered by Bond Number: 965002976

INDIAN WELL(S) BOND VERIFICATION:

1. Indian well(s) covered by Bond Number: n/a

FEE WELL(S) BOND VERIFICATION:

1. (R649-3-1) The NEW operator of any fee well(s) listed covered by Bond Number 965003033
2. The FORMER operator has requested a release of liability from their bond on: N/A
The Division sent response by letter on: N/A

LEASE INTEREST OWNER NOTIFICATION:

3. (R649-2-10) The FORMER operator of the fee wells has been contacted and informed by a letter from the Division of their responsibility to notify all interest owners of this change on: 1/29/2004

COMMENTS:

NEW ENTITY NUMBERS ASSIGNED FEBRUARY 2004

ACCT	OPERATOR NAME	API NUM.	Sec	Twncshp	Rng	WELL NAME	ENTITY	EFF DATE	REASON
N7560	Questar Pipeline Co	4300930050	22	030N	240E	Clay Basin Unit 54-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915630	23	030N	240E	Clay Basin U 6 (RD Murphy	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915634	23	030N	240E	Clay Basin U 10 (1 CL Sparks	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930020	23	030N	240E	Clay Basin Unit 29-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930022	23	030N	240E	Clay Basin Unit 31-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930040	23	030N	240E	Clay Basin Unit 44-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930041	23	030N	240E	Clay Basin Unit 45-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930053	24	030N	240E	Clay Basin Unit 57-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930032	26	030N	240E	Clay Basin Unit 41-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930033	26	030N	240E	Clay Basin Unit 42-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930039	26	030N	240E	Clay Basin Unit 43-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930042	26	030N	240E	Clay Basin Unit 46-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930051	26	030N	240E	Clay Basin Unit 55-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930052	26	030N	240E	Clay Basin Unit 56-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300915628	27	030N	240E	Clay Basin U 4 (ES Lauzer 1)	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930025	27	030N	240E	Clay Basin Unit 34-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930028	27	030N	240E	Clay Basin Unit 37-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930029	27	030N	240E	Clay Basin Unit 38-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage
N7560	Questar Pipeline Co	4300930043	27	030N	240E	Clay Basin Unit 47-S	1025 to 14040	2/10/2004	Clay Basin Gas Storage

Note to file: These entity numbers
were changed to compliment the
operator correction from 3/7/98